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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.961,381	09.25 2001	Gary Lynch	1819.0040001/MAC.LBB	7154
26111 75	90 08.18 2003			
STERNE, KESSLER, GOLDSTEIN & FOX PLLC			EXAMINER	
WASHINGTON	RK AVENUE, N.W. N, DC 20005		CROUCH, DEBORAH	
			ART UNIT	PAPER NUMBER
			1632	12

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
	09/961,381	LYNCH ET AL.
Office Action Summary	Examiner	Art Unit
	Deborah Crouch, Ph.D.	1632
The MAILING DATE of this communication ap	_	with the correspondence address
eriod for Reply		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). - Status	.136(a). In no event, however, may ply within the statutory minimum of the divill apply and will expire SIX (6) Mitte, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on		
2a) This action is FINAL . 2b) ▼ T	his action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under	·	• •
isposition of Claims		
4) Claim(s) 1-78 is/are pending in the applicatio		
4a) Of the above claim(s) is/are withdra	awn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to. 8) Claim(s) 1-78 are subject to restriction and/or	ologian requirement	
pplication Papers	election requirement.	
9) The specification is objected to by the Examine	er.	
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		the Examiner.
Applicant may not request that any objection to the		
11) The proposed drawing correction filed on	_ is: a)□ approved b)□	disapproved by the Examiner.
If approved, corrected drawings are required in re	eply to this Office action.	
12) The oath or declaration is objected to by the E	xaminer.	
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C	s. § 119(a)-(d) or (f).
a) All b) Some * c) None of:		
1. Certified copies of the priority documen	its have been received.	
2. Certified copies of the priority documen	nts have been received in	Application No
 3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a))).
14) Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C	C. § 119(e) (to a provisional application).
a) The translation of the foreign language pr 15) Acknowledgment is made of a claim for domes		
tachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 7, 8, 13-15, 17-19, 63, 64, 69-71, 73 and 74, drawn to a method for determining the effect of a substance on the characteristics of a neurodegenerative disease using brain cells and/or brain slices, classified in class 435, subclass 29.
- II. Claim 9-12 and 65-68, drawn to a method for determining the effect of a substance on the characteristics of a neurodegenerative disease using a transgenic animal, classified in class 800, subclass 3.
- III. Claims 20-35 and 38-54, drawn to a method of obtaining brain cells having characteristics of neurodegenerative disease comprising culturing brain cells in a condition that modulates integrins or integrin receptors and brain cells, classified in class 435, subclass 383.
- IV. Claims 55-58 and 76-78, drawn to a method for alleviating the symptoms of a disease state comprising administering an effective amount of an NMDA receptor antagonist, a pharmaceutical composition comprising a compound capable of inhibiting the activity of an NMDA receptor and method for inhibiting the intracellular accumulation of amyloid comprising administering a glutamate receptor antagonist, classified in class 514, subclass 1.

Claims 1-6, 16, 36, 37, 59-62, 72 and 75 link(s) inventions I and II. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 1-6, 16, 36, 37, 59-62, 72 and 75. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable

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linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Inventions I and II are mutually exclusive and independent. While both are to methods of determining the effect of a substance on characteristics of a neurodegenerative disease, invention I is to the method in vitro, that is using brain cells or brain slices and invention II is the method in vivo, that is using a transgenic animal model. Protocols for the in vitro assay and in vivo assay are materially different and separate from each other. Further, neither assay is required for the other assay.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the brain cells of invention III can be used to observe the cellular damage that results from neurodegenerative disease.

Inventions I and IV are independent inventions because they are of a different mode of operation. Invention I is to a method of for determining the effect of a substance on the characteristics of a neurodegenerative that requires in vitro cell culture. Invention IV is to a method of treatment that requires the administration of glutamate receptor agonists. In vitro and in vivo methodologies require materially different and separate protocols. Further, neither invention is need for the implementation of the other method.

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Inventions II and III are mutually exclusive and independent methods. Invention II is to an in vivo assay to determine the effects of a compound on the characteristics of a neurodegenerative disease. Invention III to methods of producing a culture of brain cells having characteristics of a neurodegenerative disease. Invention II is to an in vivo assay. Invention III is to a method of in vitro culture. The in vivo assay of invention II is not required for the method of in vitro culture of Invention III, and vice versa.

Inventions II and IV are mutually exclusive and independent methods. Invention II is to an in vivo assay to determine the effects of a compound on the characteristics of a neurodegenerative disease. Invention IV is to methods of treatment comprising administering glutamate receptor antagonists. Each method requires materially different and separate protocols; indicating that invention II and IV are of separate operation.

Inventions III and IV are mutually exclusive and independent. Invention III to methods of producing a culture of brain cells having characteristics of a neurodegenerative disease. Invention IV is to methods of treatment comprising administering glutamate receptor antagonists. Each method requires materially different and separate protocols; indicating that invention III and IV are of separate operation.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

Application/Control Number: 09/961,381 Page 5 Art Unit: 1632 currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i). Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Crouch, Ph.D. whose telephone number is 703-308-1126. The examiner can normally be reached on M-Th, 8:30 AM to 7:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah J. Reynolds can be reached on 703-305-4051. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196. Albertal Cren Cl Deborah Crouch, Ph.D. Primary Examiner Art Unit 1632

dc August 15, 2003